

HTSE Inc.
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HTSE Inc. provides automation solutions to some of the world's largest life science, chemical, food/beverage, and manufacturing companies. Our intense focus in these industries has resulted in technical fluencies, foresights, and insights honed through experience. This creates true value for our clients - value that is measured by decreased project timelines, more reliable system performance, and higher manufacturing throughput.

Client satisfaction is key to the building of a long-term client relationship. Repeat business is the result of that relationship and is a true testament of track record. At HTSE, repeat business from loyal clients account for 90% of our work.

With over 1000 completed projects for client corporations; our clients know us for our depth of knowledge, economy of use, and skillful project executions. Regardless of project size, we take a partner's interest, investing our knowledge and energy as stakeholders.

Exceptional performance requires exceptional capability.



Exceptional performance requires exceptional capability. In the world of process automation and machine control, the state-of-the-art changes continuously. The winning formula for keeping up is platform training plus related experience. We institute continuing education and training programs. This ensures our staff is not only experienced in the support of legacy systems, but also knowledgeable and skilled in the design and deployment of market fresh control platforms and technologies.

In addition to on-going professional training, HTSE automation engineers possess an average decade-plus of field experience.

We envision, engineer, and execute automation projects on time and on budget – project after project.



Chemical
Food & Beverage
Life Science / Pharmaceutical
Manufacturing
Petrochemical
Pulp & Paper
Water & Wastewater



Process Automation
S88 / Batching Systems
Continuous Process Controls
Startup, Troubleshooting, and Commissioning
Machine Control
Vision and Barcode
Packaging Line Integration/Automation
Startup, Troubleshooting and Commissioning
SCADA, HMI, and Data Acquisition
SCADA Virtualization
Electrical Engineering
Life Science / Pharmaceutical Validation
Project Management
Information Technology and Infrastructure
Industrial Control and Data Networks
CAD Services

Although HTSE maintains vendor and technology independence, we have partnerships with key platform and component providers – as well as extensive experience in the development and deployment of solutions using their technologies.

Our commitment to partner with world class technology providers further strengthens our ability to deliver world class automation solutions. Formal training and experience on these platforms allow us to competently implement and deploy open, field proven control systems that can be readily expanded and supported by the client.

Each partner program strengthens our technical competencies and skills. They enhance the intellectual product that is truly the core value we provide our clients. Our platform experience includes:

PLC Platforms

ABB
Allen-Bradley / Rockwell Automation
GE Fanuc
Mitsubishi
Modicon
Siemens
and others...

DCS Platforms

ABB
Emerson
Fisher Provox
Foxboro
Honeywell
Siemens
and others...

HMI, SCADA, and Visualization

ABB
GE Intelligent Platforms
Invensys Wonderware
LabView
Matrikon
OSIsoft
Rockwell Automation
Siemens
and others...

Vision Systems

Banner
Cognex
Microscan (Acuity/Siemens)
Systech
and others...

Barcode Verification

Cognex
Computer Identics
Datalogic
Microscan

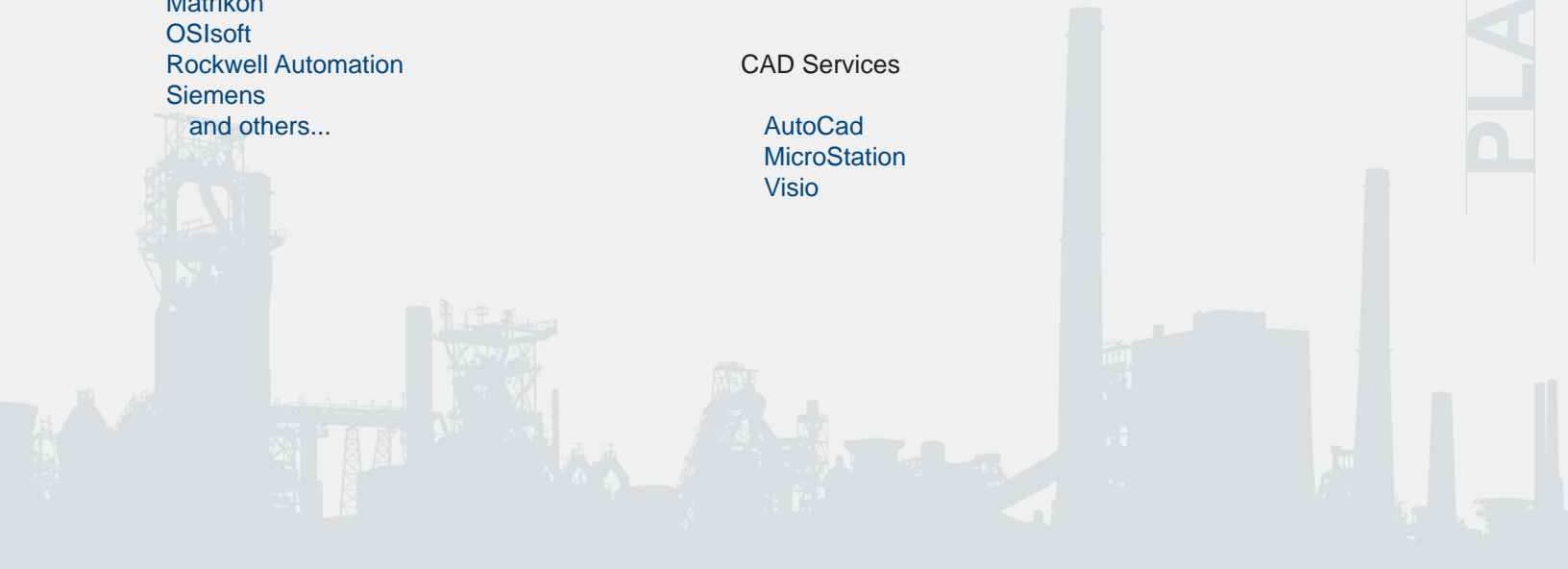
Information Technology & Control Networks

Microsoft Certified IT Professional (MCITP)
Microsoft Certified Network Product Specialist (MCNPS)
Microsoft Certified Partner (MCP)
Microsoft Certified Product Specialist (MCPS)
Microsoft Certified Technology Specialist (MCTS)
Microsoft Hyper-V
Microsoft Visual Basic
SQL Applications
VMware

CAD Services

AutoCad
MicroStation
Visio

PLATFORM EXPERIENCE



PHARMACEUTICAL AUTOMATION & VALIDATION

HTSE provides automation and validation solutions to some of the world's largest pharmaceutical and life science companies. We offer extensive knowledge and experience in the automation and validation of pharmaceutical process and packaging line control systems. From validation document creation to protocol execution, we possess in-depth knowledge of regulatory compliance requirements for pharmaceutical processes and facilities.

CHEMICAL

Safety systems, reliable process operation, and adherence to environmental regulations are just some of the many factors that add challenges to automation requirements in the chemical industry. Our high level of knowledge in these areas allow us to develop safe, rugged, reliable, and compliant automation solutions that are essential in chemical processing plants.

FOOD/BEVERAGE

From soft drinks and fruit juices, to infant formulas, cereals and candy, HTSE has the requisite controls knowledge and experience in the manufacturing and packaging of food and beverage products. With extensive experience in food manufacturing and formulation, HTSE can provide control solutions that reduce product variation, waste, and equipment downtime.



Our intense focus in these areas has resulted in technical fluencies, foresights, and insights honed through experience.



MANUFACTURING

Since 1989, HTSE has supported numerous and diverse manufacturing clients. While each client's project is unique in its specific challenges, HTSE has the industry experience and capabilities to provide innovative automation solutions to meet those challenges. Our clients rely on us for solutions that maximize throughput, lower operational costs, and minimize the cost of re-engineering to accommodate changes as their facilities grow.



INDUSTRIAL IT



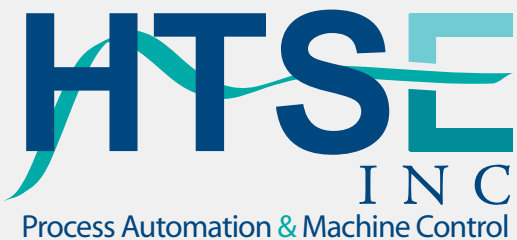
Industrial IT engineers who have experience with the operational differences between control networks and office networks are essential for the successful design and deployment of manufacturing-critical networks. It is what makes the difference between limping along with frustrating network problems or benefiting from a correctly designed, fully functional, and robust industrial control network that is reliable in operation. HTSE, a Microsoft Certified Partner (MCP), provides the expertise needed for the design and implementation of plant-wide or multi-site manufacturing control networks.

SCADA virtualization is quickly becoming a methodology of choice for the benefits it offers in areas such as cost savings, hardware independence, and disaster recovery. Our Industrial IT engineers are experienced with the latest virtualization technologies and their application to SCADA and data acquisition systems. In addition, we have experience developing and deploying virtualization solutions in validated environments.



Envision, engineer, and execute automation projects
on time and on budget – project after project.

HTSE's 10,000 sq. ft. office and lab facility in Portage, Michigan USA



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